

NEWSLETTER



OKLAHOMA/ARKANSAS SECTION

Volume 33, February 2012

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Get up-to-date information from the Section website:

<http://sections.maa.org/okar/>.

Section Governance

Oklahoma-Arkansas Section

Officers

Frank Blume, Past-Chair

Britney Hopkins, Chair

Fred Worth, 1st vice-chair

Dale Alspach, 2nd vice-chair

Michael Lloyd, Newsletter editor

V. Lee Turner, Secretary

Linda Braddy, Treasurer

John Diamantopoulos, Webmaster

Student workshop Committee

Michael Lloyd (chair)

Britney Hopkins

Thomas Milligan

Fred Worth

Faculty workshop Committee

Carolyn Eoff (chair)

Governor

Jill Guerra

**Distinguished Teaching Award
Nominating Committee**

Jack Jackson
Beverly Hartter
Ramesh Garimella
Frank Blume

**Distinguished Teaching Award
Committee**

Andy Miller (chair)
David Wright
Danny Arrigo
Joan Bell
Linda Braddy

**Oklahoma Teacher Award
Committee**

Anne Fine (chair)
Betsy Showalter
Andrew Wells

**Arkansas Teacher Award
Committee**

Charles Seifert (chair)
David Gardner
Steve Butcher

Department Chairs Committee

Carolyn Eoff (chair)

Section NExT

Jill Guerra

N.A. Court Committee

Steve Butcher (chair)
Robert Myers
Janet Woodland

Newsletter Sponsors

The following entities paid a sponsorship fee to help offset the cost of publishing and mailing the postcards this year. The Section extends its appreciation for their support of the Section and its activities. These advertisements are displayed in a random order.

BVT Publishing

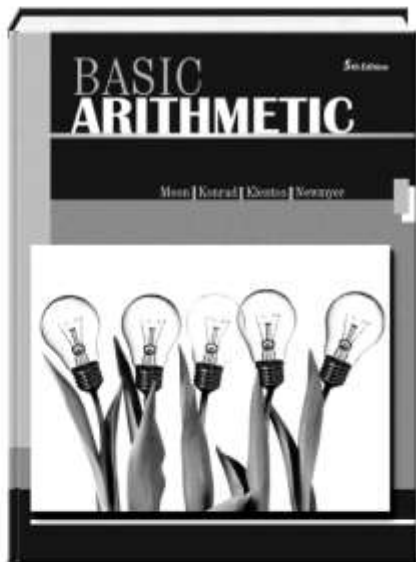
(This advertisement is on the next page.)

News Flash
BVT Publishing launches
"Free Access" textbook initiative

FREE ACCESS

BVT's Free Access textbooks are available online absolutely free. The latest addition to the program is:

Basic Arithmetic, 5/e,
Robert G. Moon, et al.
Copyright 2011
631 pages



Also Available:

- Hard-cover textbook (purchase or rent)
- Advanced eBook
- Student resources
- BVT*Lab*

BVT also offers a full range of affordable math textbooks ranging from Basic Arithmetic through Calculus.

For information, visit www.BVTPublishing.com or www.BVTLab.com, or call 800-646-7782

Henderson State University Positions Available



HENDERSONTM
STATE UNIVERSITY

Arkansas's Public Liberal Arts University

Henderson State University has a long tradition of fostering a spirit of collegiality and promoting a participatory environment for all members of the campus community.

TWO POSITIONS AVAILABLE

Assistant Professor (tenure track) of mathematics. Nine-month appointment beginning August 2012. A doctorate (or ABD) in mathematics or mathematics education is required. Teaching responsibilities include the full range of courses throughout the undergraduate mathematics curriculum. Continued scholarly activity and advising are expected, as well as service to the university, the profession and the community.

Instructor (non-tenure track) of mathematics. Nine-month appointment beginning August 2012. A master's in mathematics, mathematics education or a closely related field (with at least 18 graduate hours of mathematics) is required. Teaching responsibilities would primarily be in general education and remedial courses.

Send letter of application, current résumé, current graduate and undergraduate transcripts (unofficial accepted), a statement of teaching philosophy, and three (3) current letters of recommendation (including complete addresses, e-mail addresses and telephone numbers). At least one letter of recommendation must address the candidate's teaching. Send your materials to Dr. Fred Worth, Search Committee Chair at worthf@hsu.edu (as pdf documents) or to: Dr. Fred Worth, Search Committee Chair; Henderson State University; 1100 Henderson St., Box 7783; Arkadelphia AR 71999-0001. The selection process will begin March 15, 2012 and continue until the position is filled.

Additional information is available at www.hsu.edu/Affirmative-Action.

Henderson State University is an AA, EEO, ADA/504 Employer.

Distinguished College/University Teacher of 2011!

Congratulations to **Mickle Duggan** (retired) from East Central University!

Campus News and Notes

These submissions appear in the order in which they were received.

Northeastern State University

Joan E. Bell

Randy Snider is retiring in May 2012. Randy joined the mathematics faculty in August 2000. **Patrick Harrington** earned the Ph.D. in computer science from OSU in July 2010. He was promoted to the rank of Assistant Professor August 2011. **Richard Matzen** was promoted to the rank of Professor, effective August 2011.

NSU is in its 4th year of a \$599,355 federal education grant from the National Science Foundation that provides scholarships for students majoring in mathematics or computer science.

Martha Parrott founded and operates the Mathematics Clinic at the NSU Broken Arrow campus. The clinic provides tutor training to future elementary and middle school teachers. Those future teachers work one-on-one with elementary and middle school students providing the help they need to succeed in mathematics.

The Northeastern Oklahoma Mathematics and Science Teacher Association (NOMSTA) sponsored their 9th annual conference on the NSU campus on March 5, 2011. The conference was titled “Math and Science on a Shoestring: Teaching More with Less.” The number of those attending the conference was approximately 90 (elementary through college teachers, students, and exhibitors.)

Steven Wilkinson and **Martha Parrott** provided the mathematics content instruction for an MSP Grant partnership that brought together teachers in northern Oklahoma and Osage County Interlocal (2010-2011). A grant application for 2011-2012 is currently under review. The new grant, whose focus is on integrating math/science/literacy, is partnered by **Martha Parrott, Pam Christol, and Stephan Sargent.**

This past year 23 NSU students were initiated into the Oklahoma Alpha chapter of Kappa Mu Epsilon. The members of the Student Chapter of the MAA meet concurrently with the KME students. The student groups KME/MAA sponsored several speakers this year: **Giovanni Petris**, University of Arkansas, presented “Applied Bayesian Statistics.” **Gregory Palma**, NSU student, presented his summer research on “Non-Recursively Constructible Recursive Families of Graphs.” **Cynthia Woodburn**, Pittsburg State University, spoke on “2012 and Mayan Math,” and presented slides from her 2011 MAA Study Tour to Guatemala. Students submitted several solutions to problems in the journals *The Pentagon* and the *College Math Journal*. Students also volunteered to help the Student NSU Foundation Phonathon in calling NSU alumni. Five NSU students attended the 73rd OK-AR section meeting of the MAA and participated in the student competitions.

East Central University

Anne Fine

In June 2010, Dr. **Mickle Duggan** retired after teaching at East Central University for 27 years. Dr. **Janet Wansick** was selected to serve as interim chair of the Department of Mathematics and Computer Science.

Dr. **Andrei Ghenciu** directed a summer academy for high school students entitled “Coding Theory, Competitive Strategies, Risk Analysis & Other Mathematical Pursuits” during June 2010.

We welcomed Dr. **Andrew Wells** (Ph.D., Mathematics, Iowa State University) who joined the department in Fall 2010 as an Assistant Professor. Dr. Wells, who hails from Midland Michigan, is interested in nonassociative algebra and in particular, Moufang loops.

Dr. **Robert Ferdinand** is currently directing two National Science Foundation grants. The **Robert Noyce** grant provides scholarships and undergraduate research opportunities for mathematics majors with a commitment from them to teach secondary level mathematics in a high-need Oklahoma school. The CURM grant provides scholarship and travel money to students to work on undergraduate research projects. The CURM fellows presented their research at the BYU CURM Spring Research conference in March 2010 and at Oklahoma Research Day in November 2010. They will also present a paper at the Texas Oklahoma Research Undergraduate Symposium (TORUS) in February 2011.

Four undergraduate researchers gave oral presentations at the Technical Meeting of the Oklahoma Academy of Science at NSU-Broken Arrow in November 2010. One of those presentations was selected by the judges as “Best of Section” in the Mathematics/CS Section of the Academy. The students were directed in their research by Dr. **Anita Walker**.

MALEI Mathematics Institute

Clyde Greeno

The institute now is assisting the Community Advisory Council of the Tulsa-OK Mathematical Literacy Project toward activating an innovative mathematics education program for adults who are underprepared for collegiate mathematics courses. The instructional medium is to be a DVD

library of mathematics-as-common-sense videos. During the last year, the institute created a project website, <http://mathelite.org>, and the illustrative draft video included within it. Designed through MALEI's clinical R&D program, that movie exemplifies the institute's focus on implementing the mathematical knowledge needed for teaching mathematics below college-level courses.

Oklahoma Baptist University

Eileen Hargrove

Since the retirements of **Wayne Rhea** in 2009 and **Eugene Hobbs** in 2011, the mathematics department has added two new faculty members. Dr. **Krista Hands** joined the department in 2010 as Assistant Professor of Mathematics. Dr. **Sarah Marsh** was added in 2011 also as Assistant Professor of Mathematics. Dr. **Eileen Hargrove** was appointed as new department chair in 2011. Dr. **Deborah Collum Blue**, Senior Vice President for Academic Services, added the title Dean of the Hurley College of Science and Mathematics to her responsibilities.

Dr. Marsh gave a talk at the Joint Mathematics Meetings in Boston this January. The talk was entitled "Faculty Perspectives on the Transition to Graduate School in Mathematics."

Dr. Hands and Dr. Marsh have been working with the Student Success Center to train peer tutors in key lower-division mathematics courses. These weekly training sessions have helped improve the tutoring experience for both our tutors and our students.

Southern Nazarene University

Lee Turner

Lee Turner used his sabbatical during the Fall 2011 semester to visit Africa Nazarene University in Nairobi, Kenya, as a visiting professor. While there, he taught Linear Algebra and Integral Calculus to Computer Science students. The biggest adjustments he had to make were to the weight given to the final exam (60% of the final grade) and the grade scale (passing grades down to 40%). Some highlights of his trip were visiting Euler's boyhood home near Basel, Switzerland, during the trip to Africa, experiencing the sun directly overhead on September 27, and flying over Greenland with the sun on the horizon at midday.

Dr. Nicholas Zoller finished up his one-year Project NExT Fellowship by attending the 2011 Joint Math Meetings in New Orleans, LA and the 2011

Math Fest in Lexington, KY. At the Joint Meetings he was a co-organizer of a panel discussion for Project NExT Fellows about best practices for collaborating with non-mathematicians on teaching and research. At Math Fest, he attended a workshop about applications for teaching Linear Algebra, including a method for systematically choosing a March Madness bracket. Dr. Zoller is grateful to all of the sponsors of Project NExT, and he encourages all new faculty members to apply for this program.

In May and June 2011 Dr. Zoller participated in the annual SNU summer research program sponsored jointly by the Oklahoma Space Grant Consortium and SNU. He and his two students studied the board game *Chutes and Ladders*. This game can be modeled using Markov chains. A previous investigation determined the number of spaces in the game spinner that results in the shortest expected game length. Dr. Zoller and his students decided to try to shorten the expected length of the game by changing the rule that determines when a player may ascend a ladder. Their efforts showed that this rule change shortens the game by about 10 turns. In 2012 Dr. Zoller will lead a similar research project studying the board game *Hi Ho! Cherry-O*.

Henderson State University

Carolyn Eoff

The Henderson State University Department of Mathematics and Computer Science has experienced an active year. One of the highlights was establishing a chapter of the mathematics honor society Kappa Mu Epsilon; our new chapter was installed last October with eighteen founding members. We are also excited about the development of a statistics track as an option within our mathematics degree; it is in the final stages of approval.

Both the HSU Computer Science Club and Math Club had active years. For the eighth consecutive year, we fielded a team for the Arkansas Undergraduate Mathematics Competition which was hosted by Harding University.

Two of our faculty members announced retirement plans for the end of the spring semester. **Jo Nell Driggers** will be retiring after 14 years as an instructor at HSU and after over 50 years as a mathematics teacher in the region. **David Gardner** will be retiring after almost 30 years at HSU; he is

a long-time MAA member and has been active in the OK-AR Section for many years.

Our department is very much looking forward to hosting the OK-AR Section meeting in March.

The University of Tulsa

William Coberly

As of July of this year, the joint department of Mathematical and Computer Sciences is splitting and forming the Department of Mathematics and the new Tandy School of Computer Science which will be housed in the recently completed Rayzor Hall.

Dr. **Necibe Tuncer** began her appointment as Assistant Professor of Mathematics in the fall of 2011. She holds a PhD from Auburn University and most recently was Research Assistant Professor at University of Florida. Dr. Tuncer's areas of specialization include numerical solutions of partial differential equations and mathematical biology.

Minutes for the 2011 Business Meeting

Education Building 102
University of Central Oklahoma

The annual business meeting was called to order by chair **Frank Blume**, John Brown University, at 9:30 a.m., Saturday, April 2, 2011. There were approximately 65 members present.

The minutes of the 2010 business meeting were approved. **Linda Braddy**, Tarrant County College, gave the treasurer's report for 2010. She supplied copies of the yearly report showing the following:

	Checking/Shares	Court CD
Beginning balances, 12-31-2009	\$13,837.38	\$14,214.07
Revenues during the year	\$ 3,397.35	\$ 180.52
Expenses during the year	\$ 2,269.59	\$ 0.00
Ending balances, 12-31-2010	\$14,965.14	\$14,394.59

Linda Braddy supplied an account of all receipts and expenditures from 1-1-2010 through 12-31-2010. As of December 31, 2010 the balance in

the share-checking account was \$2,918.10, the balance in regular shares (savings) was \$3,743.48, and the balance in the share CD was \$8,303.56, giving a total of \$14,965.14. This includes \$12,785.23 in the operating account, \$974.23 in Court funds (this is separate from the Court CD), and \$1,205.68 in the faculty workshop account. The treasurer's report was approved.

Jill Guerra, University of Arkansas, Fort Smith, completed the audit of the treasurer's records for 2010 and found them to be in order.

Charles Cooper, University of Central Oklahoma, gave the Governor's report. He noted concern about the budget at the national level, requiring cost cutting and increase in membership cost. E-memberships now comprise 15% of total memberships. In the future, virtual journals will be standard with print copies optional. Attendance at the Joint Meetings is down, but MathFest is increasing attendance, primarily due to an increase in student participation. Charles also proposed having a discussion on a suggestion that, in the future, the Governor be elected from alternating states. He noted that that currently that happens, but only informally.

Carolyn Eoff, Henderson State University, gave the Department Chairs/Liaisons report. There were no recommendations from the Chairs/Liaisons meeting.

Scott McClendon, University of Central Oklahoma, gave the report on student competitions. 16 teams competed in the Jeopardy Game and 70 students competed in the integration competition. The University of Tulsa, consisting of students **Timothy Bell**, **Alex Ruff** and **Ahmed El-Kishky** won the team competition and **Son Thai Dang** from the University of Oklahoma won the integration competition. The other three teams that made it to the final round were another team from the University of Tulsa (**Stephen Macke**, **Gary West**, **Mark Denhoed**), Cameron University (**Prakash Silwal**, **Isaiah Munir**, **Daniel Ijigbamigbe**) and Oklahoma State University (**James Bishop**, **Tyler Eckert**, **Andrew Noel**).

In the integration competition, there was a 2-way tie for second place including **Tyler Eckert** from Oklahoma State University and **Tim Bell** from the University of Tulsa. There was also a 2-way tie for 4th place

consisting of **Wen Shao** from Northeastern State University and **Tim Schlittenhardt** from the University of Central Oklahoma.

This year we collected \$20 per team for a total of \$300. In order to ensure that each winning team member and the winner of the individual competition received a monetary award, we will divide the \$300 into 4 awards for \$75 each. It would be nice if the amount awarded were \$100. We hope to have 20 teams next year and each year thereafter. If we do have 20 teams competing then registration fees will allow us to send each winner \$100. However, during some years when the number of teams falls short of 20, we would hope that the section could contribute the difference. Each year we have had the competition, at least 15 teams have entered, so the amount we would hope to receive from the section should be no more than \$100 on any given year.

The members of the Competition Committee would like to thank Texas Instruments for donating two TI-NSpire calculators for the winners of the individual competition. The Committee would also like to thank **Lee Turner, Britney Hopkins, Gerry East, Frank Blume, Adam Crouch, Jesse Byrne, Larry Lucas, Chuck Cooper, Thomas Milligan, Lavinia Ciungu, Ginger McClendon, Devin Smith, Ashley Taylor, Heather Magee, Cori Bryant, Rebecca Miller, Matt Stephens**, and all others who helped make this year's Oklahoma/Arkansas Undergraduate Mathematics Competition a success!

Jill Guerra reported that Section NExT met on Thursday evening and Friday morning. There were no new fellows this year.

Dan Prugel, University of Arkansas at Fort Smith, gave the site selection report. Invitations have been received from Henderson State University for 2012, Oklahoma State University for 2013, and Harding University and University of Arkansas, Little Rock for 2014. The meeting dates are March 30 – 31, 2012, April 5 – 6, 2013, and April 4 – 5, 2014. Harding University was nominated by the committee for 2014. The proposed sites and dates were approved.

Michael Lloyd, Henderson State University, the section newsletter editor, reported income of \$150 and expenses of \$119.42. Springer and Birkäuser

advertised this year. The American Institute for the Improvement of Mathematics Learning and Instruction placed a half-page advertisement. Hence, we are approximately \$31 in the black.

The number of members contacted via postcards increased from 164 last year to 252 this year. Booklet copying costs decreased.

Seven department representatives submitted campus news reports on time to be included in the printed newsletter, down from eight last year.

I appreciate the help that **Linda Braddy, John Diamantopoulos, Lee Turner**, and others have provided.

John Diamantopoulos, Northeastern State University, reported on the electronic proceedings and on the Section website. He asked members to feel free to send him suggestions concerning the website.

The nominating committee presented the following nominations:

Past-Chair	Frank Blume , John Brown University
Chair	Britney Hopkins , University of Central Oklahoma
1 st Vice-Chair	Fred Worth , Henderson State University
2 nd Vice-Chair	Dale Alspach , Oklahoma State University
Treasurer	Linda Braddy , East Central University
Secretary	Lee Turner , Southern Nazarene University
Newsletter Editor	Michael Lloyd , Henderson State University

Janet Woodland, University of Arkansas, Fayetteville, gave the following report from the Court Lecture Committee: The Committee nominates **Duff Campbell** of Hendrix University to the Court Lecture Committee. **Steve Butcher** and **Robert Myers** are the continuing members. **Duff Campbell** was elected as a member of the Court Lecture Committee.

The following resolutions were presented, which were approved:

Be it resolved that the Oklahoma-Arkansas Section of the MAA expresses thanks to the faculty, staff, and administration of the University of Central Oklahoma for their courteous hospitality in hosting the section's 73rd annual meeting. Special thanks are extended to **Britney Hopkins** for her careful planning and management.

Be it resolved that the section gratefully recognizes **Charles Cooper**, the Governor, **Frank Blume**, the Chair, **Lee Turner**, the Secretary, and **Linda Braddy**, the Treasurer, for carrying out their duties during the academic year 2010-2011.

Be it resolved that the section expresses appreciation to **Gary Lowler**, Brigham Young University, for his excellent presentation in the student workshop on *Bubbles and Other Geometric Minimizers* and to **Michael Starbird**, University of Texas at Austin, for his thought-provoking discussion in the faculty workshop of *Inquiry Based Learning: Math and Beyond*. The section also is grateful to the student and faculty workshop committees for organizing these events, especially to the committee chairs, **Thomas Milligan** and **Charlotte Simmons**.

Be it resolved that the section conveys sincere gratitude to our invited speaker, **Barbara Faires**, Secretary of the MAA, for her stimulating lecture on *Mathematics and Architecture in the Baroque Era*, as well as to **Louis H. Kauffman**, University of Illinois, Chicago, for kindly agreeing to deliver the N.A. Court Lecture on an *Introduction to Knot Theory*.

Be it resolved that the section thankfully acknowledges **Michael Lloyd**, Henderson State University, for his services as newsletter editor.

Be it resolved that the section earnestly commends **Charles Seifert**, University of Central Arkansas, **Anne Fine**, East Central University, and the teacher award committees for the selection of outstanding mathematics teachers for the section to honor.

Be it resolved that the section warmly congratulates the following award winners:

- Arkansas teachers of the year:
 - Elementary School: **Amy Sandy**, Robert E. Lee Elementary School, Springdale, AR;
 - Middle School: **Angela Dailey-Thayer**, Cavanaugh Elementary School, Fort Smith, AR 72908;

- High School: **Lura Sandlin**, Dumas High School, Tillar, AR 71670.
- Oklahoma teachers of the year:
 - Elementary School: **Susan Hildebrand**, Jenks East Elementary School;
 - Middle School: **Stacy Fry**, Owasso Seventh Grade Center;
 - High School: **Julie Michelle Bonner**, Norman High School.
- Undergraduate presentations:
 - First Place: **Xander Rudelis**;
 - Second Place: **Karl Schaettle**;
 - Third Place: **Johnny Stitts**.
- High Scorer in the Section on the Putnam Exam:
 - **Marcus Vasquez** (University of Oklahoma).
- Winner of the Team Jeopardy Competition:
 - **Tim Bell**, **Ahmed El-Kishky**, and **Alex Ruff**, University of Tulsa.
- Winner of the Integration Bee:
 - First Place: **Son Dang** (Oklahoma University);
 - Tied for Second Place: **Tyler Eckert** (University of Tulsa) and **Tim Bell** (University of Tulsa);
 - Tied for Fourth Place: **Wen Shao** (Northeastern State University) and **Tim Schlittenhardt** (University of Central Oklahoma).
- Oklahoma-Arkansas Award for Distinguished Teaching of Mathematics:
 - **Mickle Duggan**, East Central University.

Be it resolved that the section conveys appreciation to **Jill Guerra** for organizing the student presentations and to all judges, institutions, and students who participated. The section also is grateful to **Scott McClendon** and the Student Activities Committee for planning and running the team competition and the integration bee and to all who participated in these events.

Be it resolved that the section highly commends **Jill Guerra** and **Linda Braddy** for managing the Section NexT activities.

Be it resolved that the section expresses gratitude to **John Diamantopoulos** for maintaining the electronic proceedings of the section meeting and the section website.

Be it resolved that the section sincerely acknowledges the contributions of all who served the section on a committee, participated in planning the meeting, or presented a contributed paper.

Britney Hopkins gave the following summary report:

150 students and 95 faculty registered for the meeting; 189 attended the banquet; 30 attended the luncheon; 50 students participated in the student workshop; 29 persons participated in the faculty workshop.

The meeting adjourned at approximately 10:50 a.m.

Preliminary Announcement
of the Seventy-Fourth Annual
Meeting of the Oklahoma-Arkansas Section of
THE MATHEMATICAL ASSOCIATION OF AMERICA

Time and Place: Friday and Saturday, March 30 – 31 on the campus of Henderson State University, Arkadelphia, AR, with Section NExT activities and undergraduate student competitions beginning on the evening of March 29.

See the Section website for additional information and updates:

<http://sections.maa.org/okar/>.

Program: Contributed Paper Sessions:

1. General Sessions: *Subject matter for these sessions may be from any area of mathematics.*
- 2 - 5. Special Sessions: *Algebra, Analysis, Applied Math, & Topology.*
6. Special Session: *Mathematics Education and Classroom Notes.*
7. Special Session: *By Undergraduate Students.*

This is your invitation to present a paper at our 2012 MAA section meeting. *Deadline for the abstract of your paper is Monday, March 12, 2012.* You should indicate the particular session in which you desire to present your

paper, though some adjustments in requests may be necessary. Time allowed per paper is 15 minutes. An Abstract Form can be obtained on the Section website. It should be sent directly to **Lee Turner**, Department of Mathematics, Southern Nazarene University, Bethany, OK 73008. Phone: 405-491-6364, Fax: 405-491-6689, e-mail: lturner@snu.edu.

Invited Address (3:30 pm, Friday, March 30): “Everyday Questions, Not-So-Everyday Mathematics” by **Rick Gillman**, Valparaiso University

Abstract: The world is full of un-explored mathematical problems. This talk presents the stories of three problems that the presenter found in his everyday world and investigated with undergraduate research partners. One is solved completely, one quickly reaches deep and un-explored mathematical territory, and the third, while not solved, opens many paths for further exploration.

N. A. Court Lecturer (8:00 p.m., Friday March 30): “It’s All for the Best: Optimization in the History of Science” by **Judith V. Grabiner**, Pitzer College

Abstract: Many problems, from optics to economics, can be solved mathematically by finding the highest, the quickest, the shortest – the best of something. This has been true from antiquity to the present. Why did people start looking for such explanations, and how did we come to conclude that we could productively do so? Scientific examples will include problems from ancient optics, and more modern questions in optics and classical mechanics, drawing on ideas from Newton’s and Leibniz’s calculus and from the Euler-Lagrange calculus of variations. A surprising role will also be played by philosophical and theological ideas, including those of Leibniz, Maupertuis, MacLaurin, and Adam Smith.

Faculty Workshop (8:30a.m. – 11:30a.m., April 1 - \$15.00 fee): “Teaching with Smart Board Technology” by **David Gardner**, Henderson State University

Abstract: The workshop will consist of demonstrations of the various features of the Smart Board technology and how they can be used to supplement mathematics instruction in the classroom. Additionally, demonstrations of how to incorporate dynamic software packages, such as Geometer’s Sketchpad, with the Smart Board technology will be given. Participants will have an opportunity for hands-on experience with the technology under discussion.

Student Workshop (8:30a.m. – 11:30a.m., Friday, April 1 - free): “Living in Flatland”

Abstract: The more mathematical version of the movie *Flatland, the Film*, directed by Ladd Ehlinger, Jr., will be shown. **Charles Cooper** and **Scott McClendon**, from the University of Central Oklahoma, will actively explore the dimensionality that appears in the film with the workshop participants as well as introduce participants to the mathematics of dimension in its various forms, including, if time permits, an excursion into fractal dimension."

Luncheon: 11:30 a.m. Friday, March 30 (**Reservations are needed for this luncheon.**)

Department Chairs/Heads/Liaisons: Cost: \$10.00

Presiding: **Carolyn Eoff**, Henderson State University

Faculty sponsors of student chapters/student competition teams: Cost: \$10.00

Banquet: Dinner will be at 6:00 p.m. on Friday evening in the Garrison Center Banquet Hall. Cost: \$20.00 (\$11.00 for undergraduate and graduate students)

Reservations for the Banquet or Luncheon Meetings must be received by March 21, 2012.

Registration Fee: Regular - \$20, Students - \$5, (*No P.O.'s please*) payable in advance or at registration in , Friday 8:00 a.m. – 3:00 p.m. & Saturday, 8:00 a.m. - 12:00 noon.

Note: Banquet and luncheon reservations will NOT be available onsite – these reservations must be made in advance. In addition, please note that Regular Absentee Registration is requested of each section member not attending. An absentee or early registration form can be found on the Section webpage.

Please mail your check (payable to Henderson State University) and registration form to:

Dr. Fred Worth
Department of Mathematics
Box 7783

*Or you may email your registration form to
worthf@hsu.edu and pay at registration*

The Oklahoma-Arkansas Section NExT

The Oklahoma-Arkansas Section NExT is inviting applications for 2012-2013 Fellows. Project NExT is a program of the Mathematical Association of America to help new mathematics faculty adjust to their responsibilities as full-time faculty members. The Oklahoma-Arkansas Section NExT is a local version of this national program.

The 2012 Program will take place on March 29-30 at Henderson State University as part of the spring meeting of the Section. The program will include various topics of interest to new faculty members from our Section. In particular, we will have sessions addressing teaching, research and service responsibilities. Fellows will participate in the 2012 and 2013 Section NExT meetings. For the 2012 meeting, lodging and dinner for fellows on Thursday, March 29 and a luncheon on Friday, March 30 will be provided.

Fellows must be full-time faculty in their first four years of teaching at the college/university level or a graduate student completing the Ph. D. in the current year. Interested applicants should send a letter describing their teaching, research and service interests and how they hope their participation in Section NExT will help them to meet their career goals. In addition, applicants must submit a letter from their department head or dean expressing support and a commitment to provide funds for the Fellow's participation in both the 2012 and 2013 Section meetings.

Completed applications should be sent to

Jill E. Guerra (jill.guerra@uafs.edu)
Department of Mathematics,
University of Arkansas Fort Smith,
Fort Smith, Arkansas

Local Area Hotels

Refer to <http://sections.maa.org/okar/> for detailed maps. We do not recommend the hotels in Arkadelphia.

<p>America's Best Value Inn 141 Valley Street Caddo Valley (870) 246-5855 4.3 miles to campus</p>	<p>\$42.99 single/\$47.99 double Discount rate - mention conference free internet, pool may be open, continental breakfast, most rooms have microwave and refrigerator</p>
<p>Comfort Inn 100 Crystal Palace Caddo Valley (870) 246-3800 4.3 miles to campus</p>	<p>\$69.99 double \$65.99 king Discount rate - mention conference no smoking hotel free internet, hot breakfast</p>
<p>Days Inn 137 Valley St Caddo Valley (870) 246-3031 4.3 miles to campus</p>	<p>\$47 single or double Discount rate - mention conference refrigerator, some microwaves free internet, hot breakfast</p>
<p>Degray Lake Resort Lodge 2027 State Park Entrance Road Bismarck (501) 865-5850 12.8 miles to campus</p>	<p>\$95 king or two full beds free internet, outdoor heated pool/indoor hot tub, no breakfast</p>
<p>Motel 6 106 Crystal Palace Drive Caddo Valley (870) 246-6333 4.3 miles to campus</p>	<p>\$27.99 for two people Discount rate - mention conference free internet, no breakfast</p>
<p>Super 8 118 Valley St Caddo Valley (870) 246-8585 4.3 miles to campus</p>	<p>\$42.99 for room, \$55 suite Discount rate - mention conference free internet, continental breakfast, microwave/refrigerator</p>
<p>Best Western 136 Valley Street Arkadelphia (870) 246-5592 4.3 miles to campus</p>	<p>\$55.99 king or double queen - This is a discounted rate so be sure to mention the Mathematical Association of America Conference free internet, full breakfast, microwave, refrigerator</p>

Hampton Inn 108 Malvern Road Caddo Valley (870) 403-0800 4.4 miles to campus	\$109 king/\$85 double queen/\$79 queen - This is a discounted rate so be sure to mention the conference and Henderson State University. free internet, indoor heated pool, full breakfast, microwave, refrigerator, fitness center
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Local Restaurants





Refer to <http://sections.maa.org/okar/> for detailed maps.

Reddie Café	in Garrison Center on campus	Salads, Pizza, etc.
Quizno's	in Garrison Center	Sandwiches
Caddo Cafeteria	on campus	variety
Poppa D's Diner	1520 Pine St, Arkadelphia 0.5 miles from campus	Sandwiches, Dinners
Honeycomb Restaurant	705 Main St, Arkadelphia 0.7 miles from campus	American Cooking
China Buffet	115 N 10th St, Arkadelphia 0.4 miles from campus	Chinese
Dino's Main Street Café	629 Main St, Arkadelphia 0.7 miles from campus	Sandwiches, Salads, Ice Cream
El Mariachi	1303 Pine St, Arkadelphia 0.4 miles from campus	Mexican
El Parian Mexican Restaurant	202 N 10th St, Arkadelphia 0.4 miles from campus	Mexican
Arby's	1411 Pine St, Arkadelphia 0.4 miles from campus	Fast Food
Sonic Drive-In	303 N 10th St, Arkadelphia 0.4 miles from campus	Fast Food
KFC	921 Clinton St, Arkadelphia 0.5 miles from campus	Chicken
Pizza Hut	1201 N 10th St, Arkadelphia 1.3 miles from campus	Pizza
Little Italy Italian Restaurant	2607 Caddo St, Arkadelphia 1.5 miles from campus	Italian Food
Western Sizzlin Steak House	106 WP Malone Dr, Arkadelphia 2.3 miles from campus	Steak, Buffet
Andy's	2927 Pine St, Arkadelphia	Fast Food

Restaurants	1.9 miles from campus	
Allen's BBQ and Catering	3100 Hollywood Rd, Arkadelphia 2.4 miles from campus	BBQ
Mazzio's Italian Eatery	2809 Pine St, Arkadelphia 1.6 miles from campus	Pizza
Chicken Express	3115 Pine St, Arkadelphia 2.3 miles from campus	Chicken
Taco Tico	2909 Pine Street, Arkadelphia 1.8 miles from campus	Fast Food
Hamburger Barn	2813 Pine St, Arkadelphia 1.6 miles from campus	Steak, Burgers, etc.
Domino's Pizza	3120 Pine St, Arkadelphia 2.3 miles from campus	Pizza
Subway	2802 Pine St, Arkadelphia	Sandwiches





Directions to Campus



From Little Rock, Arkansas

	Merge onto I-30 W via EXIT 139B toward Texarkana.	61.7 mi
	Take the AR-7 S exit, EXIT 78, toward Arkadelphia/Caddo Valley.	0.3 mi
	Turn left onto AR-7/Valley St. Continue to follow AR-7.	4.4 mi
	Turn right onto Huddleston St. or Henderson St.	0.2 mi

Source: www.mapquest.com

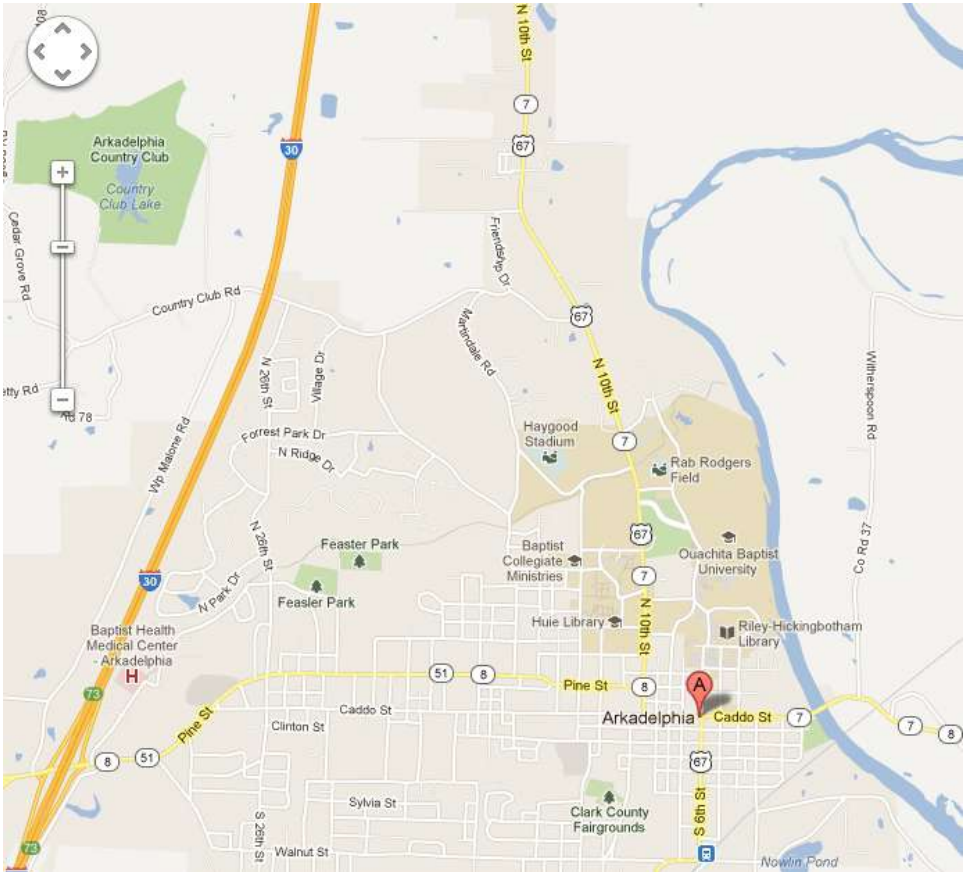
From Texarkana, Arkansas

	Merge onto I-30 E toward Little Rock.	71.7 mi
	Take the AR-8/AR-26/AR-51 exit, EXIT 73, toward Arkadelphia.	0.4 mi
	Keep right to take the AR-51 N/AR-8 E ramp toward Downtown/Hospital.	0.03 mi
	Turn slight right onto AR-8 E/AR-51 E/Pine St.	1.9 mi

	Turn left onto N 12th St.	0.2 mi
	Take the 2nd right onto Henderson St. or Huddleston St.	0.07 mi

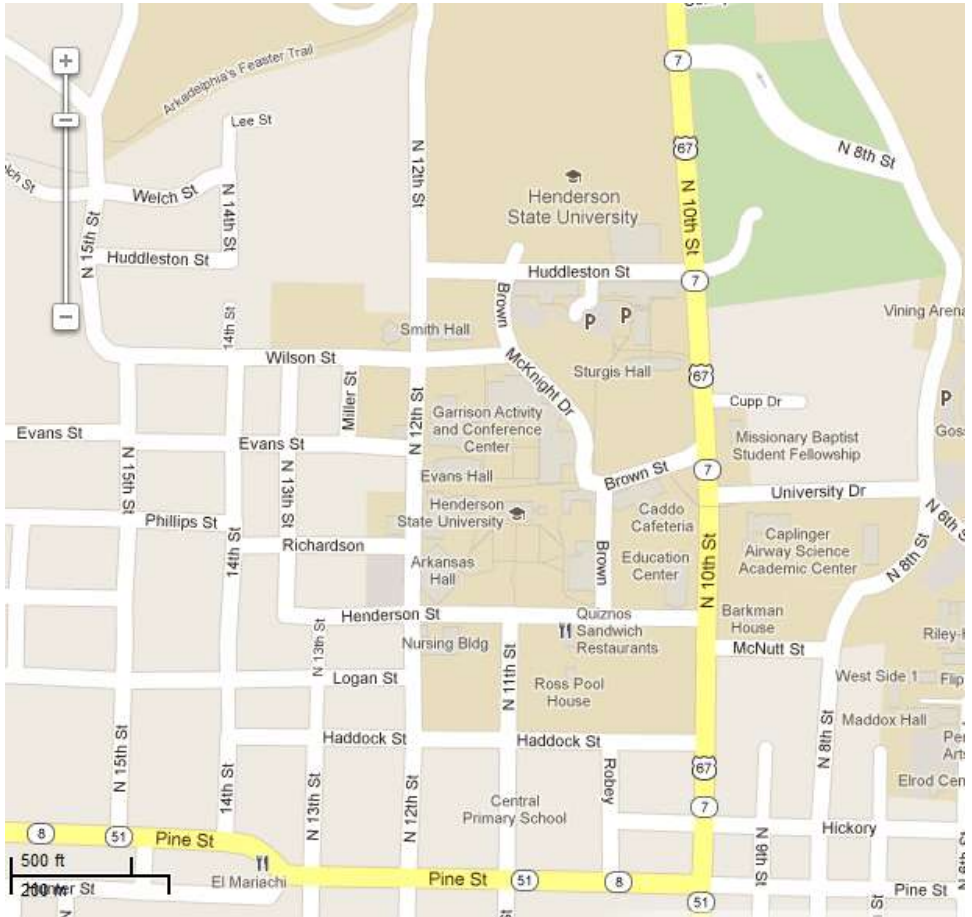
Source: www.mapquest.com

Streets around Arkadelphia, Arkansas



Source: <http://maps.google.com>

Streets around Campus



Source: <http://maps.google.com>